



2155
#3

ATTORNEY'S DOCKET NO. C0989/7016(HCL)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Eugene Chan
Serial No: 09/852,968
Filed: May 10, 2001
For: METHODS AND PRODUCTS FOR ANALYZING POLYMERS
Examiner: Unassigned
Art Unit: 2155

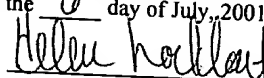
RECEIVED

JUL 12 2001

Technology Center 2100

CERTIFICATE OF MAILING UNDER 37 C.F.R. 1.8(a)

The undersigned hereby certifies that this document is being placed in the United States mail with first-class postage attached, addressed to Commissioner for Patents, Washington, D.C. 20231, on the 6 day of July, 2001.


Helen C. Lockhart

COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

Sir:

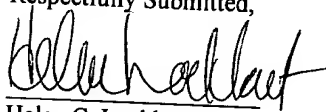
Transmitted herewith is/are the following document(s):

- ☒ Information Disclosure Statement
- ☒ Form PTO1449 with Cited References (Not Previously Submitted with US Serial No. 09/134.411)
- ☒ Certificate of Mailing
- ☒ Return Receipt Postcard

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (617) 720-3500, Boston, Massachusetts.

No check is enclosed. If a fee is required, the balance may be charged to the account of the undersigned, Deposit Account No. 23/2825. A duplicate of this sheet is enclosed.

Respectfully Submitted,



Helen C. Lockhart
Reg. No. 39,248
Wolf, Greenfield & Sacks, P.C.
600 Atlantic Avenue
Boston, MA 02210-2211
(617) 720-3500

Docket No. C0989/7016 (HCL)
Date: July 6, 2001
X08/10/01



ATTORNEY'S DOCKET NO: C0989/7016(HCL)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Eugene Chan
Serial No: 09/852,968
Filed: May 10, 2001
For: METHODS AND PRODUCTS FOR ANALYZING POLYMERS
Examiner: Unassigned
Art Unit: 2155

RECEIVED

JUL 12 2001

Technology Center 2100

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

The undersigned hereby certifies that this document is being placed in the United States mail with first-class postage attached, addressed to Commissioner for Patents, Washington, D.C. 20231, on the 6 day of July, 2001.

Helen C. Lockhart

Commissioner for Patents
Washington, D.C. 20231

STATEMENT FILED PURSUANT TO THE DUTY OF
DISCLOSURE UNDER 37 CFR §§1.56, 1.97 AND 1.98

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, the Applicant requests consideration of this Information Disclosure Statement.

PART I: Compliance with 37 C.F.R. §1.97

This Information Disclosure Statement has been filed within three months of the filing date of a National Application.

No fee or certification is required.

PART II: Information Cited

The Applicant hereby makes of record in the above-identified application the information listed on the attached form PTO-1449 (modified). The order of presentation of the references should not be construed as an indication of the importance of the references.

The applicant would like to bring to the Examiner's attention the following co-pending applications that may contain subject matter related to this application:

<u>Docket No.</u>	<u>Serial No.</u>	<u>Filing Date</u>	<u>Inventor(s)</u>
C0989/7008	09/134,411	08/13/98	Chan
C0989/7012	09/374,415	08/13/99	Chan
C0989/7014	09/373,702	08/13/99	Chan
C0989/7011*	09/373,822	08/13/99	Tegenfeldt et al.

*PCT Version

The following are remarks concerning the other information cited:

PART III: Remarks

Documents cited on the attached form PTO-1449 (modified) are enclosed unless otherwise indicated on the attached form PTO-1449 (modified). It is respectfully requested that:

1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
2. The enclosed form PTO-1449 be signed by the Examiner to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application;
3. The citations for the information be printed on any patent which issues from this application.

By submitting this Information Disclosure Statement, the Applicant makes no representation that a search has been performed, of the extent of any search performed, or that more relevant information does not exist.

By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).

By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.


Notwithstanding any statements by the Applicant, the Examiner is urged to form his own conclusion regarding the relevance of the cited information.

Serial No.: 09/852,968

- 3 -

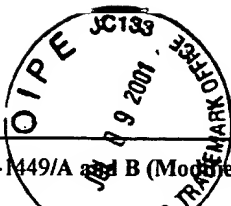
An early and favorable action is hereby requested.

Respectfully submitted,
Eugene Chan, Applicant(s)

By: 

Helen C. Lockhart, Reg No. 39,248
Wolf, Greenfield & Sacks, P.C.
600 Atlantic Avenue
Boston, MA 02210
Telephone (617) 720-3500

Docket No. C0989/7016
Dated: July 6, 2001
x08/10/01



FORM PTO-1449/A and B (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT				APPLICATION NO.: 09/852,968		ATTY. DOCKET NO.: C0989/7016	
				FILING DATE: May 10, 2001			
				APPLICANT: Eugene Chan			
				GROUP ART UNIT: 2155		EXAMINER: Unassigned	
Sheet	1	of	10				

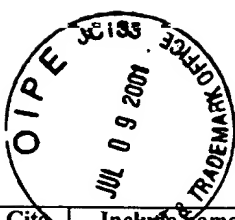
U.S. PATENT DOCUMENTS

Examiner's Initials#	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
	A1*	4,764,460	B1	Furuichi et al.	08/16/1988
	A2*	4,793,705	B1	Shera	12/27/1988
	A3*	5,079,169	B1	Chu et al.	01/07/1992
	A4*	5,091,652	B1	Mathies et al.	02/25/1992
	A5*	5,171,534	B1	Smith et al.	12/15/1992
	A6*	5,274,240	B1	Mathies et al.	12/28/1993
	A7*	5,356,776	B1	Kambara et al.	10/18/1994
	A8*	5,405,747	B1	Jett et al.	04/11/1995
	A9*	5,424,841	B1	Van Gelder et al.	06/13/1995
	A10*	5,436,130	B1	Mathies et al.	07/25/1995
	A11*	5,459,325	B1	Hueton et al.	10/17/1995
	A12*	5,470,707	B1	Sasaki et al.	11/28/1995
	A13*	5,538,898	B1	Wickramasinghe et al.	07/23/1996
	A14*	5,635,728	B1	Cantu et al.	06/03/1997
	A15*	5,654,419	B1	Mathies et al.	08/05/1997
	A16*	5,674,743	B1	Ulmer	10/07/1997
	A17*	5,720,928	B1	Schwartz	02/24/1998
	A18*	5,723,332	B1	Chernajovsky	03/03/1998
	A19*	5,795,782	B1	Church et al.	08/18/1998
	A20*	5,830,659	B1	Stewart	11/03/1998
	A21*	5,869,255	B1	Mathies et al.	02/09/1999
	A22*	5,888,792	B1	Bandman et al.	03/30/1999
	A23*	5,906,723	B1	Mathies et al.	05/25/1999
	A24*	5,928,869	B1	Nadeau et al.	07/27/1999
	A25*	5,932,442	B1	Lal et al.	08/03/1999
	A26*	6,015,714	B1	Baldarelli et al.	01/18/2000
	A27*	6,051,719	B1	Benson et al.	04/18/2000
	A28*	6,054,316	B1	Baker et al.	04/25/2000
	A29	6,210,896	B1	Chan	04/03/2001

RECEIVED
 JUL 12 2001
 Technology Center 2100

FOREIGN PATENT DOCUMENTS

Examiner's Initials#	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/ Country	Number	Kind Code			
	B1*	WO	96/29593	A1	President and Fellows of Harvard College	09/26/1996	
	B2*	WO	96/30508	A1	Rabani	10/03/1996	
	B3*	WO	98/35012	A2	Chan	08/13/1998	
	B4	WO	00/09757	A1	US Genomics	02/24/2000	



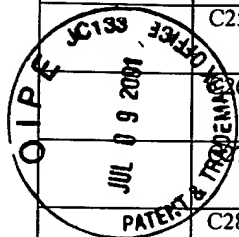
RECEIVED

JUL 12 2001

OTHER ART — NON PATENT LITERATURE DOCUMENTS Technology Center 2100

Examiner's Initials#	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
	C1*	AIKENS, R., "Chapter 21: Properties of Low-Light-Level Slow-Scan Detectors", <i>Fluorescent and Luminescent Probes for Biological Activity</i> , 1992, Pages 277-286	
	C2*	AKERMAN, B. et al., "Electrophoretic Orientation of DNA detected by Linear Dichroism Spectroscopy", <i>J. Chem. Soc. D. Chem. Commun.</i> , 1985, Pages 422-423	
	C3*	ALEXANDER, P. et al., "The Reaction of Oxidizing Agents with Wool - 5. The Oxidation Products of the Disulphide Bond and the Formation of a Sulphonamide in the Peptide Chain", <i>Biochem.</i> , 1951, Pages 129-138, Vol. 49	
	C4*	ALLEN, M.J. et al., "Scanning Tunneling Microscope Images of Adenine and Thymine at Atomic Resolution", <i>Scanning Microscopy</i> , 1991, Pages 625-630, Vol. 5, No. 3, Scanning Microscopy International, Chicago	
	C5*	ALPER, J., "From the Bioweapons Trenches, New Tools for Battling Microbes", <i>Biotechnology Industry Organization Meeting, Science</i> , June 11, 1999, Pages 1754-1755, Vol. 284, No. 5421, The American Association for the Advancement of Science	
	C6*	AMBROSE, W.P. et al., "Application of Single Molecule Detection to DNA Sequencing and Sizing", <i>Ber. Bunsenges. Phys. Chem.</i> , 1993, Pages 1535-1542, Vol. 97, No. 12, VCH Verlagsgesellschaft mbH	
	C7*	ANDERSSON-ENGELS, S. et al., "Multicolor fluorescence imaging system for tissue diagnostics", <i>SPIE Bioimaging and Two-Dimensional Spectroscopy</i> , 1990, Pages 179-189, Vol. 1205	
	C8*	AURUP, H. et al., "Oligonucleotide duplexes containing 2'-amino-2'-deoxycytidines: thermal stability and chemical reactivity", <i>Nucleic Acids Research</i> , 1994, Pages 20-24, Vol. 22, No. 1	
	C9*	ARTS, E.G.J.M. et al., "Fusion of artificial membranes with mammalian spermatozoa specific involvement of the equatorial segment after acrosome reaction", <i>Eur. J. Biochem.</i> , 1993, Pages 1001-1009, Vol. 217	
	C10*	BAINS, W., "Hybridization Methods for DNA Sequencing", <i>Genomics</i> , 1991, Pages 294-301, Vol. 11, Academic Press, Inc.	
	C11*	BALZARINI, J. et al., "Thymidylate synthetase-deficient mouse FM3A mammary carcinoma cell line as a tool for studying the thymidine salvage pathway and the incorporation of thymidine analogues into host cell DNA", <i>Biochem. J.</i> , 1984, Pages 245-252, Vol. 217	
	C12*	BARBIN, A. et al., "Lack of Miscoding Properties of 7-(2-Oxoethyl)guanine, the Major Vinyl Chloride-DNA Adduct", <i>Cancer Research</i> , June 1985, Pages 2440-2444, Vol. 45	
	C13*	BATHORI, G. et al., "Th-AM-K8 DNA can be translocated across planar bilayer membranes containing Mitochondrial Porin", <i>Mitochondrial Channels</i> , Abstract, Page A348	
	C14*	BELLO, M.S. et al., "Electroosmosis of polymer in fused silica capillaries", <i>Electrophoresis</i> , 1994, Pages 623-626, Vol. 15, VCH Verlagsgesellschaft mbH	
	C15*	BEZRUKOV, S.M. et al., "Counting polymers moving through a single ion channel", <i>Nature</i> , July 28, 1994, Pages 279-281, Vol. 370	
	C16*	BEZRUKOV, S.M. et al., "The charge state of an ion channel controls neutral polymer entry into its pore", <i>Eur. Biophys. J.</i> , 1997, Pages 471-476, Vol. 26, Springer-Verlag	
	C17*	BICK, M.D. et al., "Total Substitution of Bromodeoxyuridine for Thymidine in the DNA of a Bromodeoxyuridine-Dependent Cell Line", <i>Proc. Natl. Acad. Sci. USA</i> , May 1974, Pages 2082-2086, Vol. 71, No. 5	
	C18*	BIGNOLD, L.P., "A novel polycarbonate (Nuclepore) membrane demonstrates chemotaxis, unaffected by chemokinesis, of polymorphonuclear leukocytes in the Boyden chamber", <i>Journal of Immunological Methods</i> , 1987, Pages 275-280, Vol. 105	
	C19*	BLOOM, L.B. et al., "Dynamics of Loading the β Sliding Clamp of DNA Polymerase III onto DNA", <i>Journal of Biological Chemistry</i> , November 29, 1996, Pages 30699-30708, Vol. 271, No. 48, The American Society of Biochemistry and Molecule Biology, Inc.	
	C20*	BOCK, G. et al., "Photometric Analysis of Antifading Reagents for Immunofluorescence with Laser and Conventional Illumination Sources", <i>The Journal of Histochemistry and Cytochemistry</i> , 1985, Pages 699-705, Vol. 33, No. 7, The Histochemical Society, Inc.	
	C21*	BOHMER, R.M., "Chapter 18. Cell Division Analysis Using Bromodeoxyuridine-Induced Suppression of Hoechst 33258 Fluorescence", <i>Methods in Cell Biology</i> , 1990, Pages 173-184, Academic Press, Inc.	
	C22*	BUKRINSKAYA, A.G. et al., "Synthesis of Protein in Paramyxovirus-Infected Cells of Susceptible and Resistant Lines at the Early Stage of Infection", <i>D.I. Ivanovskii Institute of Virology, Academy of Medical Sciences of the USSR, Moscow</i> (Translated from Biokhimiya), May-June 1970, Pages 516-523, Vol. 35, No. 3, Consultants Bureau, a division of the Plenum Publishing Corporation, NY	
	C23*	BUSTAMANTE, C., "Direct Observation and Manipulation of Single DNA Molecules Using Fluorescence Microscopy", <i>Annu. Rev. Biophys. Biophys. Chem.</i> , 1991, Pages 415-446, Vol. 20, Annual Reviews, Inc.	

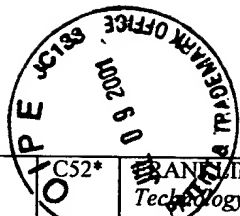
	C24*	BUURMAN, E.P. et al., "Fluorescence Lifetime Using a Confocal Laser Scanning Microscope", <i>Scanning</i> , 1992, Pages 155-159, Vol. 14, FAMS, Inc.		
	C25*	CANTOR, C.R. et al., "Meeting Report – Report on the Sequencing by Hybridization Workshop", <i>Genomics</i> , 1992, Pages 1378-1383, Vol. 13, Academic Press, Inc.		
	C26*	CASTRO, A. et al., "Single-Molecule Electrophoresis", <i>Analytical Chemistry</i> , September 15, 1995, Pages 3181-3186, Vol. 67, No. 18		
	C27*	CHANG, H.T. et al., "Dynamic control to improve the separation performance in capillary electrophoresis", <i>Electrophoresis</i> , 1995, Pages 2069-2073, Vol. 16, VCH Verlagsgesellschaft mbH		
	C28*	CHEN, D. et al., "Single-Molecule Detection in Capillary Electrophoresis: Molecular Shot Noise as a Fundamental Limit to Chemical Analysis", <i>Anal. Chem.</i> , February 15, 1996, Pages 690-696, Vol. 68, No. 4		
	C29*	CHU, G. et al., "Separation of Large DNA Molecules by Contour-Clamped Homogeneous Electric Fields", <i>Science</i> , December 1986, Pages 1582-1585, Vol. 234		
	C30*	CHURCH, G.M. et al., "Multiplex DNA Sequencing", <i>Science</i> , April 8, 1988, Pages 185-191, Vol. 240		
	C31*	CLARK, I.D. et al., "A Study of Sensitized Lanthanide Luminescence in an Engineered Calcium-Binding Protein", <i>Analytical Biochemistry</i> , 1993, Pages 1-6, Vol. 210		
	C32*	CLEGG, R.M., "Fluorescence Resonance Energy Transfer and Nucleic Acids", <i>Methods in Enzymology</i> , 1992, Pages 353-385, Vol. 211, Academic Press, Inc.		
	C33*	CLEGG, R.M. et al., "Observing the helical geometry of double-stranded DNA in solution by fluorescence resonance energy transfer", <i>Proc. Natl. Acad. Sci. USA</i> , April 1993, Pages 2994-2998, Vol. 90		
	C34*	CLEGG, R.M., "Fluorescence resonance energy transfer", <i>Current Opinion in Biotechnology</i> , 1995, Pages 103-110, Vol. 6, Current Biology LTD.		
	C35*	CRAIN, P.E., "Mass spectrometric techniques in nucleic acid research", <i>Mass Spectrometry Reviews</i> , 1990, Pages 505-554, Vol. 9, John Wiley & Sons, Inc.		
	C36*	CRISMAN, H.A. et al., "Chapter 20. Detection of Bromodeoxyuridine-Labeled Cells by Differential Fluorescence Analysis of DNA Fluorochromes", <i>Methods in Cell Biology</i> , 1990, Pages 199-206, Vol. 33, Academic Press, Inc.		
	C37*	DAVIS, L.M. et al., "Rapid DNA Sequencing Based Upon Single Molecule Detection", <i>Genet. Anal. Tech. Appl.</i> , 1991, Pages 1-7, Vol. 8, No. 1, Elsevier Science Publishing Co., Inc.		
	C38*	DAVIS, L.M. et al., "Rapid DNA Sequencing Based on Single-Molecule Detection", <i>Los Alamos Science</i> , 1992, Pages 280-286, Vol. 20		
	C39*	DEJONG, P.J. et al., "Human chromosome-specific partial digest libraries in k and cosmid vectors (A2333)", Abstract, <i>Cytogenet. Cell Genet.</i> , Page 985, Vol. 51		
	C40*	DING, D.W. et al., "The Dichroism of DNA Electric Fields", <i>Biopolymers</i> , 1972, Pages 2109-2124, Vol. 11		
	C41*	DRMANAC, R. et al., "Sequencing of Magabase Plus DNA by Hybridization: Theory of the Method", <i>Genomics</i> , 1989, Pages 114-128, Vol. 4, Academic Press, Inc.		
	C42*	EIGEN, M. et al., "Sorting single molecules: Application to diagnostics and evolutionary biotechnology", <i>Proc. Natl. Acad. Sci. USA</i> , June 1994, Pages 5740-5747, Vol. 91		
	C43*	EL-DEIRY, W.S. et al., "WAF1, a Potential Mediator of p53 Tumor Suppression", <i>Cell</i> , November 19, 1993, Pages 817-825, Vol. 75, Cell Press		
	C45*	FAERBER, P. et al., "Synthese von 5'-Mono-, 5'-Di- und 5'-Triphosphaten der Nucleoside 2.4-Dithio-uridin, 2.4-Dithio-ribothymidin, 2-Thio-thymidin und 2.4-Dithio-thymidin", <i>Chem. Ber.</i> , 1971, Pages 456-460, Vol. 104		
	C46*	FAIRCLOUGH, R.H. et al., "The Use of Singlet-Singlet Energy Transfer to Study Macromolecular Assemblies", <i>Methods in Enzym.</i> , 1978, Pages 347-379		
	C47*	FAN, F.R.F. et al., "Electrochemical Detection of Single Molecules", <i>Science</i> , February 10, 1995, Pages 871-874, Vol. 267		
	C48*	FAWCETT, J.J. et al., "Chapter 19: Large-Scale Chromosome Sorting", <i>Methods in Cell Biology</i> , 1994, Pages 319-330, Vol. 42, Academic Press, Inc.		
	C49*	FEINBERG, A.P. et al., "A Technique for Radiolabeling DNA Restriction Endonuclease Fragments to High Specific Activity", <i>Anal. Biochem.</i> , 1983, Pages 6-13, Vol. 132, Academic Press, Inc.		
	C50*	FEINBERG, A.P. et al., "A Technique for Radiolabeling DNA Restriction Endonuclease Fragments to High Specific Activity", (Addendum), <i>Anal. Biochem.</i> , 1983, Pages 266-267, Vol. 132, No. 1, Academic Press, Inc.		
	C51*	FERREIRO, M. et al., "Molecular-Level Processing of Conjugated Polymers. I. Layer-by-Layer Manipulation of Conjugated Polyions", <i>Macromolecules</i> , 1995, Pages 7107-7114, Vol. 28, American Chemical Society		



Technology Center 2100

JUL 12 2001

RECEIVED



C52*	FRANISIN, A.L. et al., "A New Technique for Retarding Fading of Fluorescence: DPX-BME", <i>Stain Technology</i> , 1985, Pages 125-135, Vol. 60, No. 3, The Williams & Wilkins Co.		
C53*	PREY, M.W. et al., "The Nucleotide Analog 2-aminopurine as a Spectroscopic Probe of Nucleotide Incorporation by the Klenow Fragment of <i>Escherichia coli</i> Polymerase I and Bacteriophage T4 DNA Polymerase", <i>Biochemistry</i> , 1995, Pages 9185-9192, Vol. 34, No. 28		
C54*	FU, T.J. et al., "Dynamics of DNA-tracking by two sliding-clamp proteins", <i>The EMBO Journal</i> , 1996, Pages 4414-4422, Vol. 15, No. 16, Oxford University		
C55*	GADELLA, T.W.J. et al., "Fluorescence lifetime imaging microscopy (FLIM): Spatial resolution of microstructures on the nanosecond time scale", <i>Biophysical Chemistry</i> , 1993, Pages 221-239, Vol. 48, Elsevier Science Publishers B.V. Amsterdam		
C56*	GAINES, H. et al., "A new method for measuring lymphoproliferation at the single-cell level in whole blood cultures by flow cytometry", <i>Journal of Immunological Methods</i> , 1996, Pages 63-72, Vol. 195, Elsevier Science B.V.		
C57*	GARLAND, P.B. et al., "Phosphorescence of Protein-Bound Eosin and Erythrosin - A possible probe for measurements of slow rational MOI", <i>Biochem. J.</i> , 1979, Pages 561-572, Vol. 183		
C58*	GAWRISCH, K. et al., "Interaction of Peptide Fragment 828-848 of the Envelope Glycoprotein of Human Immunodeficiency Virus Type I with Lipid Bilayers", <i>Biochemistry</i> , 1993, Pages 3112-3118, Vol. 32, No. 12, American Chemical Society		
C59*	GEBEYCHU, G. et al., "Novel biotinylated nucleotide-analogs for labeling and colorimetric detection of DNA", <i>Nucleic Acid Research</i> , 1987, Pages 4531-4535, Vol. 15, No. 11, IRL Press Limited, Oxford, England		
C60*	GIBSON, T.J. et al., "Lorist2, a cosmid with transcriptional terminators insulating vector genes from interference by promoters within the insert: effect on DNA yield and cloned insert frequency", <i>Gene</i> , 1987, Pages 275-281, Vol. 53, No. 2-3, Elsevier Science Publishers B.V.		
C61*	GIBSON, T.J. et al., "Lorist6, a cosmid vector with <i>Bam</i> HI, <i>Not</i> I, <i>Sca</i> I and <i>Hind</i> III cloning sites and altered neomycin phosphotransferase gene expression", <i>Gene</i> , 1987, Pages 283-286, Vol. 53, No. 2-3, Elsevier Science Publishers B.V.		
C62*	GILL, D., "Inhibition of fading in fluorescence microscopy of fixed cells", <i>Experientia</i> , March 15, 1979, Pages 400-401, Vol. 35, No. 3		
C63*	GILLAM, I.C. et al., "N ⁴ -(6-Aminoethyl)cytidine and -deoxycytidine Nucleotides Can Be Used to Label DNA", <i>Anal. Biochemistry</i> , 1986, Pages 199-207, Vol. 157, No. 2		
C64*	GILOH, H. et al., "Fluorescence Microscopy: Reduced Photobleaching of Rhodamine and Fluorescein Protein Conjugates by <i>n</i> -Propyl Gallate", <i>Science</i> , September 24, 1982, Pages 1252-1255, Vol. 217		
C65*	GLAZER, A.N. et al., "Energy-transfer fluorescent reagents for DNA analyses", <i>Curr. Opin. Biotechnol.</i> , February 1997, Pages 94-102, Vol. 8, No. 1		
C66*	GLICKMAN, B.W., "2-Aminopurine Mutagenesis in <i>Escherichia Coli</i> ", <i>Basic Life Sciences</i> , 1985, Pages 353-379, Vol. 31		
C67*	GOODWIN, P.M. et al., "Spatial Dependence of the Optical Collection Efficiency in Flow Cytometry", <i>Cytometry</i> , 1995, Pages 133-144, Vol. 21, Wiley-Liss, Inc.		
C68*	GRATTON, E. et al., "A Continuously Variable Frequency Cross-Correlation Phase Fluorometer with Picosecond Resolution", <i>Biophys. J.</i> , December 1983, Pages 315-324, Vol. 44, Biophysical Society		
C69*	GRIEP, M.A., "Fluorescence Recovery Assay: A Continuous Assay for Processive DNA Polymerases Applied Specifically to DNA Polymerase III Holoenzyme", <i>Analytical Biochemistry</i> , 1995, Pages 180-189, Vol. 232, Academic Press, Inc.		
C70*	GUERON, M. et al., "Excited States of Nucleotides and Singlet Energy Transfer in Polynucleotides", <i>The Journal of Chemical Physics</i> , November 15, 1967, Pages 4077-4091, Vol. 47, No. 10		
C71*	GURRIERI, S. et al., "Imaging of Kinked Configurations of DNA Molecules Undergoing Orthogonal Field Alternating Gel Electrophoresis by Fluorescence Microscopy", <i>Biochemistry</i> , 1990, Pages 3396-3401, Vol. 29, American Chemical Society		
C72*	HAAB, B.B. et al., "Single Molecule Fluorescence Burst Detection of DNA Fragments Separated by Capillary Electrophoresis", <i>Analytical Chemistry</i> , September 15, 1995, Pages 3253-3260, Vol. 67, No. 18		
C73*	HAMADA, S. et al., "DAPI Staining Improved for Quantitative Cytofluorometry", <i>Histochemistry</i> , 1983, Pages 219-226, Vol. 79, Springer-Verlag		
C74*	HARDING, J.D. et al., "Single-molecule detection as an approach to rapid DNA sequencing", <i>Trends in Biotechnology</i> , January-February 1992, Pages 55-57, Vol. 10, Elsevier Science Publishers Ltd. (UK)		
C75*	HARRIS, C.M. et al., "On the dielectrically observable consequences of the diffusional motions of lipids and proteins in membranes. 2. Experiments with microbial cells, protoplasts and membrane vesicles", <i>Eur. Biophys. J.</i> , 1985, Pages 11-24, Vol. 11-24, Springer-Verlag		

Technology Center 2100

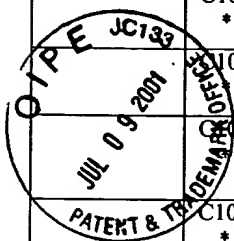
JUL 12 2001

RECEIVED



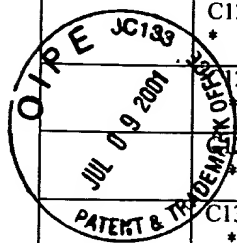
C76*	HAUG, R. et al., "Handbook of Fluorescent Probes and Research Chemicals – Sixth Edition", <i>Molecular Probes</i> , 1996, Pages 143-200		
C77*	HERENDEEN, D.R. et al., "DNA Polymerase III: Running Rings around the Fork", <i>Cell</i> , January 12, 1996, Pages 5-8, Vol. 84, Cell Press		
C78*	HERMAN, B. et al., "Fluorescence Lifetime Imaging in Cell Biology", <i>SPIE</i> , Pages 88-97, Vol. 2678		
C79*	HOGAN, M. et al., "Transient electric dichroism of rod-like DNA molecules", <i>Proc. Natl. Acad. Sci. USA</i> , January 1978, Pages 195-199, Vol. 75, No. 1		
C80*	HOLZWARTH, A.R., "Time-Resolved Fluorescence Spectroscopy", <i>Methods in Enzymology</i> , 1995, Pages 334-362, Vol. 246, Academic Press, Inc.	Technology Center 2100 JUL 12 2001	RECEIVED
C81*	HOLZWARTH, G. et al., "The Acceleration of Linear DNA During Pulsed-Field Gel Electrophoresis", <i>Biopolymers</i> , June 1989, Pages 1043-1058, Vol. 28, No. 6		
C82*	HOUSEAL, T.W. et al., "Real-time imaging of single DNA molecules with fluorescence microscopy", <i>Biophys. J.</i> , September 1989, Pages 507-516, Vol. 56, Biophysical Society		
C83*	HUFF, J.C. et al., "Enhancement of Specific Immunofluorescent Findings with Use of a Para-Phenylenediamine Mounting Buffer", <i>Journal of Investigative Dermatology</i> , 1982, Pages 449-450, Vol. 78, No. 5, The Williams & Wilkins co.		
C84*	HUNG, S.C. et al., "Cyanine Dyes with High Absorption Cross Section as Donor Chromophores in Energy Transfer Primers", <i>Anal. Biochem.</i> , December 1, 1996, Pages 15-27, Vol. 243, Academic Press, Inc.		
C85*	IKEHARA, M. et al., "Polynucleotides. VII. Synthesis of Ribopolynucleotides Containing 8-Substituted Purine Nucleotides by Polynucleotide Phosphorylase", <i>Biochemistry</i> , February 1969, Pages 736-743, Vol. 8, No. 2		
C86*	JETT, J.H. et al., "High-Speed DNA Sequencing: An Approach Based Upon Fluorescence Detection of Single Molecules", <i>Journal of Biomolecular Structure & Dynamics</i> , 1989, Pages 301-309, Vol. 7, No. 2, Adenine Press		
C87*	JOHNSON, G.D. et al., "A Simple Method of Reducing the Fading of Immunofluorescence During Microscopy", <i>Journal of Immunological Methods</i> , 1981, Pages 349-350, Vol. 43, Elsevier/North-Holland Biomedical Press		
C88*	JOHNSON, G.D. et al., "Fading of Immunofluorescence during Microscopy: a Study of the Phenomenon and its Remedy", <i>Journal of Immunological Methods</i> , 1982, Pages 231-242, Vol. 55, Elsevier Biomedical Press		
C89*	JU, J. et al., "Cassette labeling for facile construction of energy transfer fluorescent primers", <i>Nucleic Acids Research</i> , 1996, Pages 1144-1148, Vol. 24, No. 6, Oxford University Press		
C90*	JU, J. et al., "Energy transfer primers: A new fluorescence labeling paradigm for DNA sequencing and analysis", <i>Nature Medicine</i> , February 1996, Pages 246-249, Vol. 2, No. 2		
C91*	JUMPPANEN, J.H. et al., "Influence of electrolyte composition on the effective electric field strength in capillary zone electrophoresis", <i>Electrophoresis</i> , August 1995, Pages 1441-1444, Vol. 16, No. 8, VCH Verlagsgesellschaft mbH		
C92*	KASIANOWICZ, J.J. et al., "Characterization of individual polynucleotide molecules using a membrane channel", <i>Proc. Natl. Acad. Sci. USA</i> , November 1996, Pages 13770-13773, Vol. 93		
C93*	KASIANOWICZ, J.J., "Polymer Transport in the Alpha-Hemolysin Ion Channel 6", Abstract, Page 111		
C94*	KATO, H. et al., "Nondisjunction of chromosomes in a synchronized cell population initiated by reversal of colcemid inhibition", <i>Expl. Cell Res.</i> , 1970, Pages 459-464, Vol. 60		
C95*	KEOUGH, T. et al., "Antisense DNA oligonucleotides. II: The use of matrix-assisted laser desorption/ionization mass spectrometry for the sequence verification of methylphosphonate oligodeoxyribonucleotides", <i>Rapid Commun. Mass Spectrom.</i> , March 1993, Pages 195-200, Vol. 7, No. 3		
C96*	KINJO, M. et al., "Ultrasensitive hybridization analysis using fluorescence correlation spectroscopy", <i>Nucleic Acid Research</i> , 1995, Pages 1795-1799, Vol. 23, No. 10, Oxford University Press		
C97*	KIRK, W.R. et al., "Lanthanide-Dependent Perturbations of Luminescence in Indolythylenediaminetetraacetic Acid-Lanthanide Chelate", <i>J. Phys. Chem.</i> , 1993, Pages 10326-10340, Vol. 97, No. 40, American Chemical Society		
C98*	KIVA Genetics Web Page, Printout		
C99*	KLENCHIN, V.A. et al., "Electrically induced DNA uptake by cells is a fast process involving DNA electrophoresis", <i>Biophys. J.</i> , October 1991, Pages 804-811, Vol. 60, Biophysical Society		
C100*	KORCHEMNAYA, E.K. et al., "Electrophoresis in Nonaqueous and Mixed Solvents", <i>J. Anal. Chem. USSR</i> (English Translation), 1978, Pages 635-639, Vol. 33, Plenum Publishing Corp.		

	C101 *	LAKOWICZ, J.R. et al., "Lifetime-selective fluorescence imaging using an rf phase-sensitive camera", <i>Rev. Sci. Instru.</i> , 1991, Pages 3653-3660, Vol. 62		
	C102 *	LANG, R.A. et al., "Synthetic Procedures in Nucleic Acid Chemistry", 1968, Page 228, Vol. 1, John Wiley & Sons, New York		
	C103 *	LANGER, P.R. et al., "Enzymatic synthesis of biotin-labeled polynucleotides: Novel nucleic acid affinity probes", <i>Proc. Natl. Acad. Sci. USA</i> , November 1981, Pages 6633-6637, Vol. 78, No. 11		
	C104 *	LEE, K.B. et al., "A New Approach to Assay Endo-Type Carbohydrases: Bifluorescent-Labeled Substrates for Glycoamidases and Ceramide Glycanases", <i>Analytical Biochemistry</i> , 1995, Pages 31-36, Vol. 230, Academic Press, Inc.		
	C105 *	LEE, L.G. et al., "DNA sequencing with dye-labeled terminators and T7 DNA polymerase: effect of dyes and dNTPs on incorporation of dye-terminators and probability analysis of termination fragments", <i>Nucleic Acid Research</i> , 1992, Pages 2471-2483, Vol. 20, No. 10, Oxford University Press		
	C106 *	LEE, N. et al., "Diffusion of a Polymer Chain through a Thin Membrane", <i>J. Phys. II France</i> , February 1996, Pages 195-204, Vol. 6, Les Editions de Physique		
	C107 *	LEE, S.P. et al., "A Fluorometric Assay for DNA Cleavage Reactions Characterized with <i>Bam</i> HI Restriction Endonuclease", <i>Analytical Biochemistry</i> , 1994, Pages 377-383, Vol. 220, Academic Press, Inc.		
	C108 *	LEE, S.P. et al., "Characterization of Endonucleolytic Activity of HIV-1 Integrase Using a Fluorogenic Substrate", <i>Analytical Biochemistry</i> , 1995, Pages 295-301, Vol. 227, Academic Press, Inc.		
	C109 *	LEE, Y.H. et al., "Laser-Induced Fluorescence Detection of a Single Molecule in a Capillary", <i>Analytical Chemistry</i> , December 1, 1994, Pages 4142-4149, Vol. 66, No. 23, American Chemical Society		
	C110 *	LEWOTSKY, K., "Hyperspectral Imaging: evolution of imaging spectrometry", <i>SPIE OE/Rep.</i> , November 1994, Pages 1-3		
	C111 *	LITTLE, D.P. et al., "Rapid Sequencing of Oligonucleotides by High-Resolution Mass Spectrometry", <i>J. Am. Chem. Soc.</i> , 1994, Pages 4893-4897, Vol. 116, No. 11		
	C112 *	LOCKHART, D.J. et al., "Expression monitoring by hybridization to high-density oligonucleotide arrays", <i>Nature Biotechnology</i> , December 1996, Pages 1675-1680, Vol. 14		
	C113 *	LOROS, J.J. et al., "Molecular Cloning of Genes Under Control of the Circadian Clock in <i>Neurospora</i> ", <i>Science</i> , 1989, Pages 385-388, Vol. 243		
	C114 *	MAL'TSEV, V.G. et al., "Optimization of the Chromatographic Analysis of Amino Acids", Institute of High-Molecular-Weight Compounds, Academy of Sciences of the USSR, Leningrad, Translated from Zhurnal Analiticheskoi Khimii, April 1978, Pages 798-807, Vol. 33, No. 4		
	C115 *	MARCUS, P.I. et al., "Viral Inhibition in the Metaphase-Arrest Cell", <i>Proc. Natl. Acad. Sci. USA</i> , 1963, Pages 1156-1164, Vol. 50		
	C116 *	MARRA, M. et al., "End Sequence Determination from Large Insert Clones Using Energy Transfer Fluorescent Primers", <i>Genome Research</i> , 1996, Pages 1118-1122, Vol. 6, No. 11, Cold Spring Harbor Laboratory Press		
	C117 *	MARTIN, I. et al., "Correlation between Fusogenicity of Synthetic Modified Peptides Corresponding to the NH ₂ -Terminal Extremity of Simian Immunodeficiency Virus gp32 and Their Mode of Insertion into the Lipid Bilayer: an Infrared Spectroscopy Study", <i>J. Virol.</i> , February 1994, Pages 1139-1148, Vol. 68, No. 2, American Society for Microbiology		
	C118 *	MATAYOSHI, E.D. et al., "Novel Fluorogenic Substrates for Assaying Retroviral Proteases by Resonance Energy Transfer", <i>Science</i> , February 1990, Pages 954-958, Vol. 247		
	C119 *	MATSUMOTO, S. et al., "Light Microscopic Structure of DNA in Solution Studied by the 4',6'-Diamidino-2-phenylindole Staining Method", <i>J. Mol. Biol.</i> , 1981, Pages 501-516, Vol. 152, Academic Press, Inc. (London) Ltd.		
	C120 *	MAURIZI, M.R. et al., "Distances between Active Site Probes in Glutamine Synthetase from <i>Escherichia coli</i> : Fluorescence Energy Transfer in Free and in Stacked Dodecamers", <i>Biochemistry</i> , 1986, Pages 141-151, Vol. 25, No. 1		
	C121 *	MAUTNER, H.G., "The Synthesis and Properties of Some Selenopurines and Selenopyrimidines", <i>J. Am. Chem. Soc.</i> , October 20, 1956, Pages 5292-5294, Vol. 78		
	C122 *	MAXAM, A.M. et al., "A new method for sequencing DNA", <i>Proc. Natl. Acad. Sci. USA</i> , February 1977, Pages 560-564, Vol. 74, No. 2		
	C123 *	MAYMON, P.W. et al., "Optical system design alternatives for the Moderate-Resolution Imaging Spectrometer-Tilt (MODIS-T) for the Earth Observing System (EoS)", <i>SPIE</i> , 1988, Pages 10-22, Vol. 924		
	C124 *	MCGOWN, L.B., "Fluorescence Lifetime Filtering", <i>Anal. Chem.</i> , Pages 839A-847A, Vol. 61		
	C125 *	MEFFERT, R. et al., "UV-induced cross-linking of proteins to plasmid pBR322 containing 8-azidoadenine 2'-deoxyribonucleotides", <i>FEB06443</i> , November 1988, Pages 190-194, Vol. 239, No. 2, Elsevier Science Publishers B.V. (Biomedical Division), Federation of European Biochemical Society		



RECEIVED
JUL 12 2001
Technology Center-2100

	C126 *	MENG, X. et al., "Optical mapping of lambda bacteriophage clones using restriction endonucleases", <i>Nature Genetics</i> , April 1995, Pages 432-438, Vol. 9		
	C127 *	MENG, X. et al., "Inhibition of Restriction Endonuclease Activity by DNA Binding Fluorochromes", <i>Dynamics</i> , 1996, Pages 945-951, Vol. 13, No. 6, Adenine Press		
	C128 *	MERTZ, J. et al., "Single-molecule detection by two-photon-excited fluorescence", <i>Optics Letters</i> , December 15, 1995, Pages 2532-2534, Vol. 20, No. 24, Optical Society of America		
	C129 *	MEINKOTH, J. et al., "Nick Translation", <i>Methods in Enzymology</i> , 1987, Pages 91-93, Vol. 152, Academic Press, Inc.		
	C130 *	MENTER, J.M. et al., "Kinetics of Fluorescence Fading of Acridine Orange-heparin Complexes in Solution", <i>Photochemistry and Photobiology</i> , 1978, Pages 629-633, Vol. 27, Pergamon Press (Great Britain)		
	C131 *	METZGER, R.A., Article from <i>Wired</i> , November 1998, Page 4		
	C132 *	MIKI, M. et al., "Structure of actin observed by fluorescence resonance energy transfer spectroscopy", <i>J. Muscle Res. Cell Motil.</i> , 1992, Pages 132-145, Vol. 13, Chapman & Hall		
	C133 *	MIKI, M. et al., "Kinetics of Structural Changes of Reconstituted Skeletal Muscle Thin Filaments Observed by Fluorescence Resonance Energy Transfer", <i>The Journal of Biological Chemistry</i> , April 5, 1993, Pages 7101-7106, Vol. 268, No. 10, The American Society for Biochemistry and Molecular Biology, Inc.		
	C134 *	MOORE, D.P. et al., "The Orientation, Relaxation and Reptation of DNA in Orthogonal Field, Alternatively-Pulsed Gel Electrophoresis (OFAGE): A Linear Dichroism Study", <i>Biophysical J.</i> , 1986, Page 130a, Vol. 49		
	C135 *	MORIKAWA, K. et al., "Visualization of Individual DNA Molecules in Solution by Light Microscopy: DAPI Staining Method", <i>J. Biochem.</i> , 1981, Pages 693-696, Vol. 89, No. 2		
	C136 *	MOROZOV, V.N. et al., "New polyacrylamide gel-based methods of sample preparation for optical microscopy: immobilization of DNA molecules for optical mapping", <i>Journal of Microscopy</i> , September 1996, Pages 205-214, Vol. 183, Pt. 3, The Royal Microscopical Society		
	C137 *	NAKASHIMA, M. et al., "448-Detector Optical Recording System: Development and Application to <i>Aplysia</i> Gill-Withdrawal Reflex", <i>IEEE Transactions on Biomedical Engineering</i> , January 1992, Pages 26-36, Vol. 39, No. 1		
	C138 *	NAKTINIS, V. et al., "A Molecular Switch in a Replication Machine Defined by an Internal Competition for Protein Rings", <i>Cell</i> , January 12, 1996, Pages 137-145, Vol. 84, Cell Press		
	C139 *	NIE, S. et al., "Probing Individual Molecules with Confocal Fluorescence Microscopy", <i>Science</i> , November 11, 1994, Pages 1018-1021, Vol. 266		
	C140 *	NGUYEN, D.C. et al., "Detection of Single Molecules of Phycoerythrin in Hydrodynamically Focused Flows by Laser-Induced Fluorescence", <i>Anal. Chem.</i> , September 1, 1987, Pages 2158-2161, Vol. 59, No. 17		
	C141 *	OIDA, T. et al., "Fluorescence lifetime imaging microscopy (flimscopy). Methodology development and application to studies of endosome fusion in single cells", <i>Biophys. J.</i> , March 1993, Pages 676-685, Vol. 64, Biophysical Society		
	C142 *	ONRUST, R. et al., "DNA Polymerase III Accessory Proteins. II. Characterization of δ and δ' ", <i>The Journal of Biological Chemistry</i> , June 5, 1993, Pages 11766-11772, Vol. 268, No. 16, The American Society for Biochemistry and Molecular Biology, Inc.		
	C143 *	PAP, E.H.W. et al., "Quantitation of the Interaction of Protein Kinase C with Diacylglycerol and Phosphoinositides by Time-Resolved Detection of Resonance Energy Transfer", <i>Biochemistry</i> , 1993, Pages 13310-13317, Vol. 32, No. 48		
	C144 *	PARSEGAN, V.A. et al., "Watching Small Molecules Move: Interrogating Ionic Channels Using Neutral Solutes", <i>Bioscience Reports</i> , 1995, Pages 503-514, Vol. 15, No. 6, Plenum Publishing Corp.		
	C145 *	PAZ-ELIZUR, T. et al., " β^* , a UV-inducible Smaller Form of the β Subunit Sliding Clamp of DNA Polymerase III of <i>Escherichia coli</i> . I. Gene Expression and Regulation", <i>The Journal of Biological Chemistry</i> , February 2, 1996, Pages 2482-2490, Vol. 271, No. 5, The American Society for Biochemistry and Molecular Biology, Inc.		
	C146 *	PECK, K. et al., "Single-molecule fluorescence detection: Autocorrelation criterion and experimental realization with phycoerythrin", <i>Proc. Natl. Acad. Sci. USA</i> , June 1989, Pages 4087-4091, Vol. 86		
	C147 *	PERIASAMY, A. et al., "Computerized Fluorescence Microscopic Vision in the Biomedical Sciences", <i>Journal of Computer-Assisted Microscopy</i> , 1994, Pages 1-26, Vol. 6, No. 1, Plenum Publishing Corp.		
	C148 *	PICCIOLO, G.L. et al., "Reduction of Fading of Fluorescent Reaction Product for Microphotometric Quantitation", <i>Advances in Applied Microbiology</i> , 1984, Pages 197-234, Vol. 30, Academic Press, Inc.		
	C149 *	PILLAI, V.N.R., "Photoremovable Protecting Groups in Organic Synthesis", <i>Synthesis</i> , January 1980, Pages 1-26, Georg. Thieme Publishers		
	C150 *	PLATT, J.L. et al., "Retardation of fading and enhancement of intensity of immunofluorescence by p-phenylenediamine", <i>J. of Histochemistry and Cytochemistry</i> , 1983, Pages 840-842, Vol. 31, No. 6		

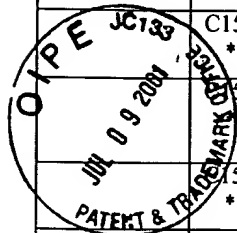


Technology Center 2100

JUL 12 2001

RECEIVED

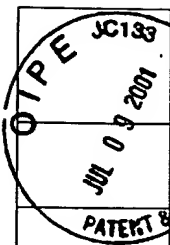
	C151 *	POOT, M. et al., "Chapter 19. Cell Cycle Analysis Using Continuous Bromodeoxyuridine Labeling and Hoechst 33258-Ethidium Bromide Bivariate Flow Cytometry", <i>Methods in Cell Biology</i> , 1990, Pages 185-198, Vol. 33, Academic Press, Inc.		
	C152 *	PRIORE, D.R.C. et al., "Comparisons Between Oriented Film and Solution Tertiary Structure of Various Nucleic Acids", <i>Biopolymers</i> , 1979, Pages 1809-1820, Vol. 18, John Wiley & Sons, Inc.		
	C153 *	PURMAL, A.A. et al., "5-Hydroxypyrimidine deoxynucleoside triphosphates are more efficiently incorporated into DNA by exonuclease-free Klenow fragment than 8-oxopurine deoxynucleoside triphosphates", <i>Nucleic Acids Research</i> , 1994, Pages 3930-3935, Vol. 22, No. 19, Oxford University Press		
	C154 *	QU, D. et al., "A role for melanin-concentrating hormone in the central regulation of feeding behaviour", <i>Nature</i> , March 21, 1996, Pages 243-247, Vol. 380		
	C155 *	RAHN, R.O. et al., "The UV-induced Triplet State in DNA", <i>Proc. Natl. Acad. Sci. USA</i> , 1965, Pages 893-896, Vol. 53		
	C156 *	RAMPINO, N.J. et al., "Apparatus for Gel Electrophoresis with Continuous Monitoring of Individual DNA Molecules by Video Epifluorescence Microscopy", <i>Analytical Biochemistry</i> , 1991, Pages 278-283, Vol. 194, Academic Press, Inc.		
	C157 *	RAO, P.N., "Mitotic Synchrony in Mammalian Cells Treated with Nitrous Oxide at High Pressure", <i>Science</i> , 1968, Pages 774-776, Vol. 160		
	C158 *	RIGBY, P.W.J. et al., "Labeling Deoxyribonucleic Acid to High Specific Activity <i>in Vitro</i> by Nick Translation with DNA Polymerase I", <i>J. Mol. Biol.</i> , 1977, Pages 237-251, Vol. 113		
	C159 *	REDDICK, R.C. et al., "New form of scanning optical microscopy", <i>Physical Review B</i> , January 1, 1989, Pages 767-770, Vol. 39, No. 1		
	C160 *	RODGERS, M.A.J. et al., "Instrumentation for Fluorescence Microscopy with Picosecond Time Resolution", <i>Photochemistry and Photobiology</i> , 1985, Pages 613-616, Vol. 42, No. 5, Pergamon Press Ltd.		
	C161 *	RONAGHI, M. et al., "Real-Time DNA Sequencing Using Detection of Pyrophosphate Release", <i>Analytical Biochemistry</i> , 1996, Pages 84-89, Vol. 242, Academic Press, Inc.		
	C162 *	ROSS, P.D. et al., "Electrophoresis of DNA. III. The Effect of Several Univalent Electrolytes on the Mobility of DNA", <i>Biopolymers</i> , 1964, Pages 231-236, Vol. 2		
	C163 *	ROYCHOUDHURY, R. et al., "Influence of nucleotide sequence adjacent to duplex DNA termini on 3' terminal labeling by terminal transferase", <i>Nucleic Acids Research</i> , April 1979, Pages 1323-1333, Vol. 6, No. 4, Information Retrieval Limited, London, England		
	C164 *	SAHA, A.K. et al., "Time-Resolved Fluorescence of a New Europium Chelate Complex: Demonstration of Highly Sensitive Detection of Protein and DNA Samples", <i>J. Am. Chem. Soc.</i> , 1993, Pages 11032-11033, Vol. 115, No. 23, American Chemical Society		
	C165 *	SAHOTA, R.S. et al., "Nonaqueous Capillary Electrophoresis", <i>Anal. Chem.</i> , April 1, 1994, Pages 1141-1146, Vol. 66, No. 7		
	C166 *	SAIKI, R.K. et al., "Primer-Directed Enzymatic Amplification of DNA with a Thermostable DNA Polymerase", <i>Science</i> , January 29, 1988, Pages 487-491, Vol. 239		
	C167 *	SANGER, F. et al., "DNA sequencing with chain-terminating inhibitors", <i>Proc. Natl. Acad. Sci. USA</i> , December 1977, Pages 5463-5467, Vol. 74, No. 12		
	C168 *	SASE, I. et al., "Real Time Imaging of Single Fluorophores on Moving Actin with an Epifluorescence Microscope", <i>Biophysical Journal</i> , August 1995, Pages 323-328, Vol. 69		
	C169 *	SHELLMAN, J. et al., "Optical Spectroscopy of Oriented Molecules", <i>Chem. Rev.</i> , 1987, Pages 1359-1399, Vol. 87, American Chemical Society		
	C170 *	SCHOTT, J.R., "Remote Sensing of the Earth: A Synoptic View. Space-based and aerial images can provide information about Earth resources, agricultural conditions, weather patterns and a host of other phenomena that would be impossible to observe from the ground.", <i>Physics Today</i> , September 1989, Pages 72-79, American Institute of Physics		
	C171 *	SCHWARTZ, D.C. et al., "Conformational dynamics of individual DNA molecules during gel electrophoresis", <i>Nature</i> , April 6, 1989, Pages 520-522, Vol. 338		
	C172 *	SELVIN, P.R. et al., "Luminescence Resonance Energy Transfer", <i>J. Am. Chem. Soc.</i> , 1994, Pages 6029-6030, Vol. 116, American Chemical Society		
	C173 *	SHERA, E.B. et al., "Detection of single fluorescent molecules", <i>Chemical Physics Letters</i> , November 23, 1990, Pages 553-557, Vol. 174, No. 6, Elsevier Science Publishers B.V. (North-Holland)		
	C174 *	SHIKMUS, M.L. et al., "Synthesis and Characterization of Biotin-Labeled Nucleotide Analogs", <i>DNA</i> , 1986, Pages 247-255, Vol. 5, No. 3, Mary Ann Liebert, Inc. Publishers		

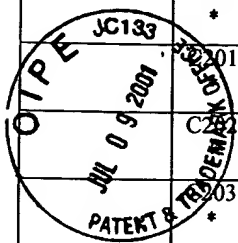


Technology Center 2100

JUL 12 2001

RECEIVED

	C175	SKALITER, R. et al., "β*, a UV-inducible Shorter Form of the β Subunit of DNA Polymerase III of <i>Escherichia coli</i> . II. Overproduction, Purification, and Activity as a Polymerase Processivity Clamp", <i>The Journal of Biological Chemistry</i> , February 2, 1996, Pages 2491-2496, Vol. 271, No. 5, The American Society for Biochemistry and Molecular Biology, Inc.		
	C176	SMIRNOV, I.P. et al., "Sequencing Oligonucleotides by Exonuclease Digestion and Delayed Extraction Matrix-Assisted Laser Desorption Ionization Time-of-Flight Mass Spectrometry", <i>Analytical Biochemistry</i> , 1996, Pages 19-25, Vol. 238, Academic Press, Inc.		
	C177	SMITH, D.P. et al., "Isolation and structure of an arrestin gene from <i>Drosophila</i> ", <i>Proc. Natl. Acad. Sci. USA</i> , February 1990, Pages 1003-1007, Vol. 87		
	C178	SMITH, L.M. et al., "Fluorescence detection in automated DNA sequence analysis", <i>Nature</i> , June 12, 1986, Pages 674-679, Vol. 321		
	C179	SMITH, S.B. et al., "Observation of Individual DNA Molecules Undergoing Gel Electrophoresis", <i>Science</i> , January 13, 1989, Pages 203-206, Vol. 243	Technology Center 2100	JUL 12 2001
	C180	SPATZ, W.B. et al., "Reduced Fading of Fast Blue Fluorescence in the Brain of the Guinea-Pig by Treatment with Sodium-Nitroprusside", <i>Neuroscience Letters</i> , 1983, Pages 1-4, Vol. 38, Elsevier Scientific Publishers Ireland Ltd.		
	C181	SOPER, S.A. et al., "Sanger DNA-Sequencing Reactions Performed in a Solid-Phase Nanoreactor Directly Coupled to Capillary Gel Electrophoresis", <i>Analytical Chemistry</i> , October 1, 1998, Pages 4036-4043, Vol. 70, No. 19, American Chemical Society		
	C182	SOPER, S.A. et al., "Nanoliter-scale sample preparation methods directly coupled to polymethylmethacrylate-based microchips and gel-filled capillaries for the analysis of oligonucleotides", <i>Journal of Chromatography A</i> , 1999, Pages 107-120, Vol. 853, Elsevier Science B.V.		
	C183	STEINBERG, I.Z., "Long-Range Nonradiative Transfer of Electronic Excitation Energy in Proteins and Polypeptides", <i>Annu. Rev. Biochem.</i> , 1971, Page 83-114, Vol. 40		
	C184	STEWART, J.R. et al., "Chinese Hamster Cell Monolayer Cultures. II. X-Ray Sensitivity and Sensitization by 5-Bromodeoxycytidine in the Exponential and Plateau Periods of Growth", <i>Experimental Cell Research</i> , 1968, Pages 293-299, Vol. 49		
	C185	STRYER, L., "Fluorescence Energy Transfer as a Spectroscopic Ruler", <i>Ann. Rev. Biochem.</i> , 1978, Pages 819-846, Vol. 47, Annual Review, Inc.		
	C186	STUBBLEFIELD, E., "Chapter 2. Synchronization Methods for Mammalian Cell Cultures", <i>Methods in Cell Physiology</i> , 1968, Pages 25-43, Vol. 3, Academic Press, Inc.		
	C187	STURM, J. et al., "Direct Observation of DNA Chain Orientation and Relaxation by Electric Birefringence: Implications for the Mechanism of Separation during Pulsed-Field Gel Electrophoresis", <i>Physical Review Letters</i> , March 27, 1989, Pages 1484-1487, Vol. 62, No. 13, The American Physical Society		
	C189	SUNG, W. et al., "Polymer Translocation through a Pore in a Membrane", <i>Physical Review Letters</i> , July 22, 1996, Pages 783-786, Vol. 77, No. 4, The American Physical Society		
	C190	TALIANI, M. et al., "A Continuous Assay of Hepatitis C Virus Protease Based on Resonance Energy Transfer Dipeptide Substrates", <i>Analytical Biochemistry</i> , 1996, Pages 60-67, Vol. 240, Academic Press, Inc.		
	C191	TAYLOR, D.L. et al., "Chapter 13. Basic Fluorescence Microscopy", <i>Methods in Cell Biology</i> , 1989, Pages 207-237, Vol. 29, Academic Press, Inc.		
	C192	TAYLOR, D.L. et al., "Detection of Actin Assembly by Fluorescence Energy Transfer", <i>The Journal of Cell Biology</i> , May 1981, Pages 362-367, Vol. 89, The Rockefeller University Press		
	C193	TER BEEST, M.B.A. et al., "Interaction of myeline basic protein with artificial membranes Parameters governing binding, aggregation and dissociation", <i>Eur. J. Biochem.</i> , 1993, Pages 689-696, Vol. 211		
	C194	UCHIYAMA, H. et al., "Detection of Undegraded Oligonucleotides <i>in vivo</i> by Fluorescence Resonance Energy Transfer. Nuclease Activities in Living Sea Urchin Eggs", <i>The Journal of Biological Chemistry</i> , January 5, 1996, Pages 380-384, Vol. 271, No. 1, The American Society for Biochemistry and Molecular Biology, Inc.		
	C195	UEDA, T. et al., "Nucleosides and Nucleotides. X. Synthesis of 4-Thiouracil Nucleosides and Nucleotides by the Solvolysis of Cytidine and Its Phosphates with Hydrogen Sulfide", <i>Chem. Pharm. Bull.</i> , 1974, Pages 2377-2382, Vol. 22, No. 10		
	C196	VALNES, K. et al., "Retardation of Immunofluorescence Fading during Microscopy", <i>The Journal of Histochemistry and Cytochemistry</i> , 1985, Pages 755-761, Vol. 33, No. 8, The Histochemical Society, Inc.		
	C197	VAN HULST, N.F. et al., "Near-field optical microscope using a silicon-nitride probe", <i>Appl. Phys. Letter</i> , February 1, 1993, Pages 461-463, Vol. 62, No. 5, American Institute of Physics		
	C198	VAUGHN, W. et al., "Oxygen quenching of pyrenebutyric acid fluorescence in water. A dynamic probe of the microenvironment", <i>Biochemistry</i> , 1970, Pages 464-473, Vol. 9, No. 3		
	C199	WAGGONER, A., "Covalent Labeling of Proteins and Nucleic Acids with Fluorophores", <i>Methods Enzymol.</i> , 1995, Pages 362-373, Vol. 246, Academic Press, Inc.		

	C200	WANG, X. et al., "Discovery of adrenomedullin in rat ischemic cortex and evidence for its role in exacerbating focal brain ischemic damage", <i>Proc. Natl. Acad. Sci. USA</i> , December 1995, Pages 11480-11484, Vol. 92		
	C201	WANG, X.F. et al., "Time-Resolved Fluorescence Microscopy Using Multichannel Photon Counting", <i>Applied Spectroscopy</i> , 1990, Pages 25-30, Vol. 44, No. 1, Society for Applied Spectroscopy		
	C202	WANG, Y. et al., "Rapid Sizing of Short Tandem Repeat Alleles Using Capillary Array Electrophoresis and Energy-Transfer Fluorescent Primers", <i>Anal. Chem.</i> , April 1, 1995, Pages 1197-1203, Vol. 67, No. 7		
	C203	WANG, Y. et al., "High-resolution capillary array electrophoretic sizing of multiplexed short tandem repeat loci using energy-transfer fluorescent primers", <i>Electrophoresis</i> , 1996, Pages 1485-1490, Vol. 17, VCH Verlagsgesellschaft mbH		
	C204	WARD, D.C. et al., "Fluorescence Studies of Nucleotides and Polynucleotides. I. Formycin, 2-Aminopurine Riboside, 2,6-Diaminopurine Riboside and Their Derivatives", <i>The Journal of Biological Chemistry</i> , March 10, 1969, Pages 1228-1237, Vol. 244, No. 5		
	C205	WIEMANN, S. et al., "Primer Design for Automated DNA Sequencing Utilizing T7 DNA Polymerase and Internal Labeling with Fluorescein-15-dATP", <i>BioTechniques</i> , April 1995, Pages 688-697, Vol. 18, No. 4		
	C206	WILKINSON, J.Q. et al., "Identification of mRNAs with enhanced expression in ripening strawberry fruit using polymerase chain reaction differential display", <i>Plant Molecular Biology</i> , 1995, Pages 1097-1108, Vol. 27, Kluwer Academic Publishers, Belgium		
	C207	WITTEWER, C.T. et al., "Continuous Fluorescence Monitoring of Rapid Cycle DNA Amplification", <i>BioTechniques</i> , January 1997, Pages 130-138, Vol. 22, No. 1		
	C208	WOOLLEY, A.T. et al., "Ultra-High-Speed DNA Sequencing Using Capillary Electrophoresis Chips", <i>Anal. Chem.</i> , October 15, 1995, Pages 3676-3680, Vol. 67, No. 20, American Chemical Society		
	C209	WORONICZ, J.D. et al., "Requirement for the orphan steroid receptor Nur77 in apoptosis of T-cell hybridomas", <i>Nature</i> , January 20, 1994, Pages 277-281, Vol. 367		
	C210	WU, H.M. et al., "Solution structural studies of the A and Z forms of DNA", <i>Proc. Natl. Acad. Sci. USA</i> , November 1981, Pages 6808-6811, Vol. 78, No. 11		
	C211	WU, J.Y. et al., "Chapter 30. Fast Multisite Optical Measurement of Membrane Potential", Department of Physiology, Yale University School of Medicine, New Haven, CT USA, Pages 389-404		
	C212	WU, P. et al., "Resonance Energy Transfer: Methods and Applications", <i>Anal. Chem.</i> , 1994, Pages 1-13, Vol. 218, Academic Press, Inc.		
	C213	WUNDERLICH, F. et al., "Antimitotic agents and macronuclear division of ciliates. II. Endogenous recovery from colchicine and colcemid-a new method of synchronization in <i>Tetrahymena pyriformis</i> GL", <i>Expl. Cell Res.</i> , 1969, Pages 142-144, Vol. 57		
	C214	YAMAOKA, K. et al., "Electric Dichroism Studies of Macromolecules in Solutions. II. Measurements of Linear Dichroism and Birefringence of Deoxyribonucleic Acid in Orienting Electric Fields", <i>Macromolecules</i> , January-February 1973, Pages 66-76, Vol. 6, No. 1		
	C215	YAMAOKA, K. et al., "Electric Dichroism Study of a Sonicated DNA and Its Complex with an Acridine Dye in Aqueous Solutions: Field-Strength Dependence and Linear Dichroic Spectra", <i>Macromolecules</i> , 1981, Pages 595-601, Vol. 14, American Chemical Society		
	C216	VANE, G. et al., "Comparison of laboratory calibrations of the Airborne Visible/Infrared Imaging Spectrometer (AVIRIS) at the beginning and end of the first flight season", <i>Proc. SPIE-Recent Adv. Sensors, Radiometry Data Proc. Remote Sens.</i> , 1988, Pages 168-178, Vol. 924		
	C217	ZWEIG, A., "Photochemical Generation of Stable Fluorescent Compounds (Photofluorescence)", <i>Pure and Applied Chemistry</i> , 1973, Pages 389-410, Vol. 33		

EXAMINER	DATE CONSIDERED
----------	-----------------

#EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. 09/134,411, filed August 13, 1998 and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

RECEIVED

JUL 12 2001

Technology Center 2100